

## HIGH PERFORMANCE SOLAR MODULES

# REC AE-SERIES

REC AE-Series modules are the perfect choice for building solar systems that combine long lasting product quality with reliable power output. REC combines high quality design and manufacturing standards to produce high-performance solar modules with uncompromising quality.



**EASY  
TO INSTALL**



**ROBUST AND  
DURABLE DESIGN**



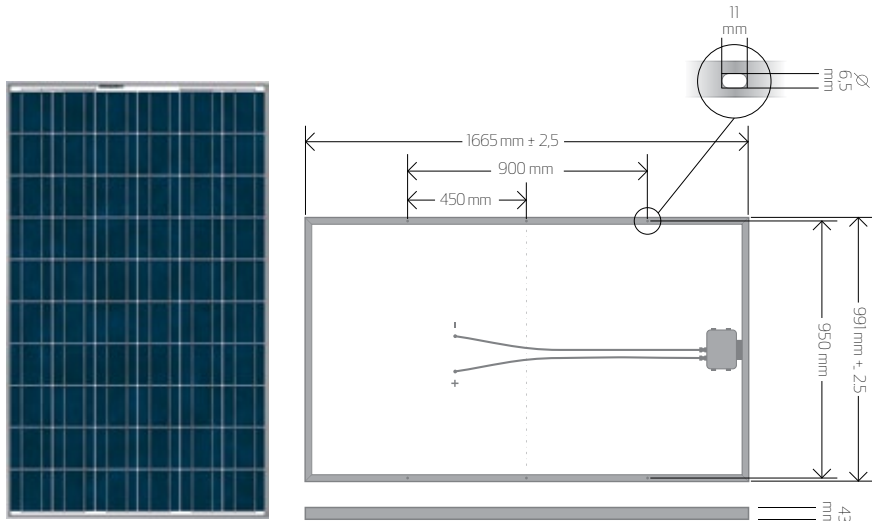
**ENERGY PAYBACK  
TIME OF ONE YEAR**



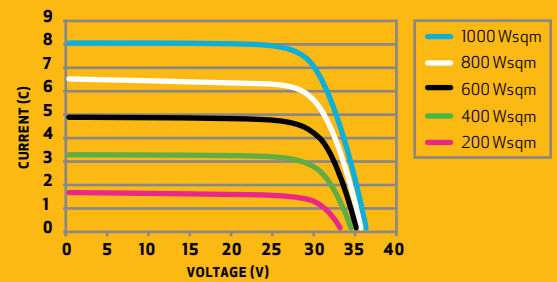
**OPTIMIZED FOR ALL  
SUNLIGHT CONDITIONS**



# REC AE-SERIES



## IV CHARACTERISTICS 215W MODULE



**13.9** EFFICIENCY  
**63** MONTHS WORKMANSHIP WARRANTY  
**25** YEAR POWER OUTPUT WARRANTY

### ELECTRICAL DATA @ STC

	REC205AE	REC210AE	REC215AE	REC220AE	REC225AE	REC230AE
Peak Power Watts - $P_{MAX}$ (Wp)	205	210	215	220	225	230
Watt Class Tolerance - $P_{TOL}$ (W)	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5
Watt Class Tolerance - $P_{TOL}$ (%)	0/+2	0/+2	0/+2	0/+2	0/+2	0/+2
Maximum Power Voltage - $V_{MPP}$ (V)	27.6	27.9	28.2	28.5	28.7	29.0
Maximum Power Current - $I_{MPP}$ (A)	7.5	7.6	7.7	7.8	7.9	8.0
Open Circuit Voltage - $V_{OC}$ (V)	35.8	36.1	36.3	36.5	36.7	36.9
Short Circuit Current - $I_{SC}$ (A)	8.2	8.3	8.3	8.4	8.5	8.6
Module Efficiency (%)	12.4	12.7	13.0	13.3	13.6	13.9

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C)

### TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C (±2°C)
Temperature Coefficient of $P_{MPP}$	-0.46%/°C
Temperature Coefficient of $V_{OC}$	-0.34%/°C
Temperature Coefficient of $I_{SC}$	0.06%/°C

### CERTIFICATION



IEC 61215 AND IEC 61730  
 ISO 9001

### MECHANICAL DATA

Dimensions	1665 x 991 x 43 mm
Area	1.65 m <sup>2</sup>
Weight	22kg

### GENERAL DATA

Cell Type	156 x 156 mm multi-crystalline cells 60 in series - 3 strings of 20 cells
Glass	High-transparency solar glass with antireflection surface treatment by Sunarc Technology
Back sheet	Double layer high performance polyester
Frame	Anodized aluminium
Connectors	2 x 0.94m solar cables with MCIII connectors

### WARRANTY

10 years limited warranty of 90% power output  
 25 years limited warranty of 80% power output  
 63 months limited product warranty

### MAXIMUM RATINGS

Operational Temperature	-40 ... +80°C
Maximum System Voltage	1000V
Maximum Load	551 kg/m <sup>2</sup> (5400 Pa)
Maximum Wind Speed	197 km/h (w/safety factor 3)
Max Series Fuse Rating	15A
Max Reverse Current	15A

**Note!** Specifications subject to change without notice.

REC is the leading vertically integrated player in the solar energy industry. REC Silicon and REC Wafer are among the world's largest producers of polysilicon and wafers for solar applications. REC Solar is a rapidly growing manufacturer of solar cells and modules, and are also engaging in project development activities in selected segments of the PV market. REC had revenues of NOK 8 191 million and an operating profit of NOK 2 529 million in 2008. Close to 3 000 employees work in REC's worldwide organization.

For further information, contact your local distributor or visit our web site: [www.recgroup.com](http://www.recgroup.com)



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